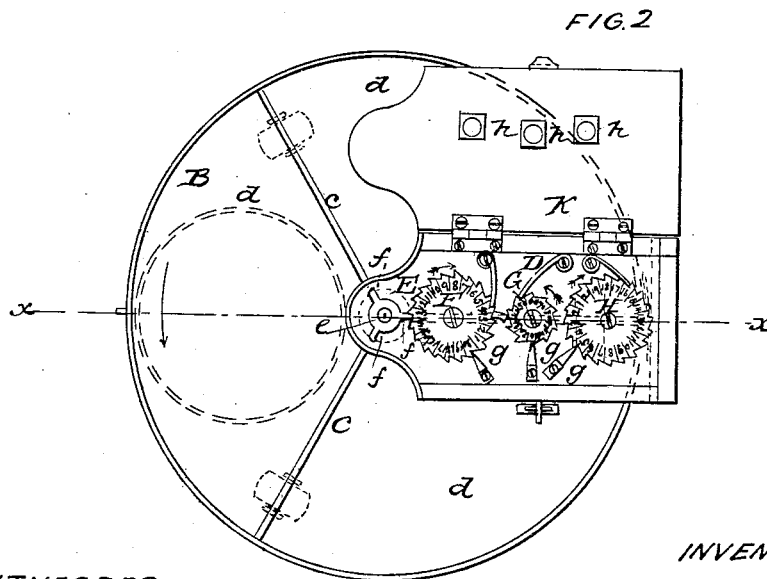
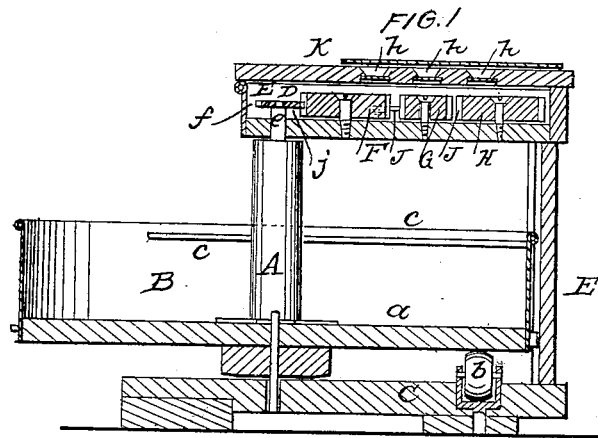


RAKESTRAW & COLWELL.

Machine for Registering Measured Grain.

No. 45,436.

Patented Dec. 13, 1864.



WITNESSES
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UNITED STATES PATENT OFFICE.

ALBERT RAKESTRAW AND WILLIAM COLWELL, OF CHILLICOTHE, ILLINOIS.

IMPROVEMENT IN MACHINES FOR REGISTERING MEASURED GRAIN.

Specification forming part of Letters Patent No. 45,436, dated December 13, 1864.

To all whom it may concern:

Be it known that we, ALBERT RAKESTRAW and WILLIAM COLWELL, of Chillicothe, in the county of Peoria and State of Illinois, have invented a new and Improved Grain Measuring and Registering Machine for Thrashing-Machines; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a vertical section of our invention, taken in the line *x x*, Fig. 2; Fig. 2, a plan or top view of the same with the top of the register box open.

This invention relates to a new and useful machine for measuring and registering grain as it is discharged from a thrashing-machine while the latter is in operation.

The invention consists in the employment or use of a horizontal rotating box, in which the measures are placed to receive the grain, said box being placed on a shaft, provided at its upper end with a tappet, which actuates a series of toothed or ratchet wheels, the latter serving as dials or registers to indicate, in connection with indices, the number of bushels of grain discharged from the thrashing-machine.

A represents a vertical shaft, the lower end of which is secured to the center of the bottom *a* of a horizontal box, B, which rests upon friction-rollers *b*, placed in a base or bed-piece, C. This box B is divided by radial rods *c*, or by partition-boards, into three divisions, *d*, in which the measures to receive the grain are placed, one in each division.

D represents a horizontal box, which is supported by an upright, E, on the base or bed-piece C, and through the bottom of which a journal, *e*, at the upper end of the shaft A, passes. This journal *e* has a tappet, E', on its upper end, provided with three teeth, *f*, and within the box D there are placed three horizontal toothed or ratchet wheels, F G H. The wheel F is provided with twenty (20) teeth, and the teeth *f* of the tappet E engage with them as the shaft A rotates. On the axis of the wheel F, below the latter,

there is placed an arm, I, which engages with the teeth of the wheel G, and turns the latter the distance of one tooth at each revolution of the wheel F. The wheel G is provided with ten (10) teeth. On the axis of the wheel G there is placed an arm, J, which engages with the teeth of the wheel H, and turns it the distance of one tooth at every revolution of the wheel G. The wheel H is provided with twenty (20) teeth. The teeth of the wheels F G H are all numbered, and an index, *g*, extends over the edge of each wheel, as shown in Fig. 2. The box D is provided with a lid or cover, K, through which holes *h* are made to expose the indices *g*.

The operation is as follows: The empty measures are placed in the divisions of the box B, and the grain falls from the thrashing-machine through a spout into the measures, the latter being filled consecutively, and the box B being turned as each measure is filled, in order to bring an empty one under the spout. The filled measures are removed and replaced by empty ones as the box B rotates. At each revolution of the box B the wheel F is turned the distance of three of its teeth, as there are three teeth, *f*, on the tappet E, and at each revolution of the wheel F the wheel G is turned the distance of one of its teeth, the wheel H being turned the distance of one of its teeth at each revolution of the wheel G.

From the above description it will be seen that each revolution of the wheel F indicates twenty half-bushels, the wheel G one hundred bushels, and the wheel H two thousand bushels.

The lid or cover K may be provided with a lock, in order to prevent fraud by persons tampering with the registers.

What we claim as new, and desire to secure by Letters Patent, is—

The revolving box B, placed on or attached to the shaft A, in combination with the tappet E and wheels or registers F G H, all arranged substantially as and for the purpose herein set forth.

ALBERT RAKESTRAW,
WM. COLWELL.

Witnesses:

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